

WHAT IS CLAIMED IS:

1. A process for producing a component with an inner fabric, comprising:

    laying a plurality of fabric layers, one layer on top of another layer, wherein the plurality of fabric layers comprise a polymer fabric;

    introducing a plastic layer between at least one pair of the plurality of fabric layers, wherein the plastic layer has a melting point of at most a melting point or a decomposing temperature of the plurality of fabric layers;

    pressing the plurality of fabric layers and the plastic layer under a pressure greater than atmospheric pressure;

    at least partially melting the plastic layer;

    at least partially melting fibers of the plurality of fabric layers;

    after reaching a desired final form, cooling the melted plastic;

    monolithically bonding the plurality of fabric layers to one another by the cooled plastic and by the partially-melted fibers,

    wherein the layer of plastic is in at least one of a powder form or a sheet form.

2. A process for producing a component according to Claim 1, wherein the at least partially melting of fibers is by less than 10 vol.%.

3. A process according to Claim 1, wherein the at least partially melted plastic layer infiltrates into the plurality of fabric layers.

4. A process according to Claim 1, wherein, when at least partially melting the plastic layer, a pressure of between 5 and 400 bar is applied.

5. A process according to Claim 4, wherein a pressure of between 10 and 200 bar is applied.

6. A process according to Claim 1, wherein the plastic layer has a melting temperature of between 120°C and 165°C.

7. A process according to Claim 1, wherein the plurality of fabric layers and the at least partially-melted plastic layer are pressed with one another for between 1 and 240 seconds.

8. A process according to Claim 7, wherein the plurality of fabric layers and the at least partially-melted plastic layer are pressed with one another for between 2 and 120 seconds.

9. A process according to Claim 1, further comprising introducing a centrally-arranged foam layer in the plurality of fabric layers.

10. A process according to Claim 9, wherein a plastic layer is arranged alongside the foam layer.

11. A process according to Claim 9, wherein a plastic layer is arranged along both sides of the foam layer.

12. A process according to Claim 10, wherein the foam layer comprises a material having a melting temperature of at least the melting temperature of the plastic layer.

13. A process according to Claim 1, wherein the pressing is in a molding press.

14. A process according to Claim 1, wherein the plastic layer has a melting point below at least one of the melting point or the decomposing temperature of the plurality of fabric layers.

15. A process according to Claim 1, wherein the plastic layer has a volume greater than or equal to a sum of:  
clearances between neighbouring fabric layers in a desired final state of the component, and  
half of the clearances which each of the two neighbouring fabric layers has itself.

16. A process according to Claim 1, wherein the fabric of the plurality of fabric layers comprises a filament made from fibers, wherein the filament has a width that is greater than its height by at least a factor of 2.

17. A process according to Claim 16, wherein the filament has a width that is greater than its height by at least a factor of 10.

18. A component, comprising:  
a plurality of fabric layers, each fabric layer comprising fibers;  
one or more plastic layers arranged between the plurality of fabric layers,  
wherein a melting point of the one or more plastic layers corresponds at most to at least one of a melting point or a decomposing temperature of the fibers.

19. A component according to Claim 18, wherein the one or more plastic layers are arranged at least partially between the fibers of the plurality of the fabric layers.

20. A component according to Claim 18, wherein the melting point of the one or more plastic layers is below at least one of the melting point or the decomposing temperature of the fibers of the plurality of fabric layers.

21. A component according to Claim 18, wherein the one or more plastic layers has a melting point of between 120°C and 165°C.

22. A component according to Claim 18, wherein each fabric layer comprises a polymer fabric.

23. A component according to Claim 18, further comprising a centrally-arranged foam layer in the plurality of fabric layers.

24. A component according to Claim 23, wherein a melting temperature of the foam layer is at least the melting temperature of the one or more plastic layers.

25. A component according to Claim 18, wherein the fabric of the plurality of fabric layers is a geotextile.

26. A component according to Claim 18, wherein the fibers of a layer of fabric are at least partially-melted by less than 10 vol.%.

27. A component according to Claim 18, wherein the plurality of fabric layers comprise filaments consisting of fibers,

wherein a width of the filaments is greater than their height by at least a factor of 2.

28. A component according to Claim 27, wherein a width of the filaments is greater than their height by a factor of 5.

29. A component according to Claim 27, wherein a width of the filaments is greater than their height by a factor of 10.